





# SUMMARY

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## **REVISION OF THE MANUAL**

This document is **revision 01** of the **TMD MKG** operating manual.

**Issue date:** 26/02/2021

# INTRODUCTION

Dear Customer,

We would like to thank you for choosing a TEXA product for your workshop.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read through the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product to which it refers.

TEXA S.p.A reserves the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement; the company may do so at any time without prior notice.

This product is intended for use by technicians specialized in the automotive field only. Reading and understanding the information in this manual cannot replace adequate specialized training in this field.

The sole purpose of the manual is to illustrate the operation of the product sold. It is not intended to offer technical training of any kind and technicians will therefore carry out any interventions under their own responsibility and will be accountable for any damage or personal injury caused by negligence, carelessness, or inexperience, regardless of the fact that a TEXA S.p.A. tool has been used based on the information within this manual.

Any additions to this manual, useful in describing the new versions of the program and new functions associated to it, may be sent to you through our TEXA technical bulletin service.



















This manual should be considered an integral part of the product to which it refers. In the case it is resold the original buyer is therefore required to forward the manual to the new owner.




Reproduction, whole or in part, of this manual in any form whatsoever without written authorization from the producer is strictly forbidden.

The original manual was written in Italian, every other language is a translation of the original manual.

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# 1 LEGEND OF THE SYMBOLS USED

|   |                                  |   |  |
|---|----------------------------------|---|--|
|    | Toxic material hazard            |    | Risk of crushing hands                       |
|    | Explosive material hazard        |    | Floor level obstacle warning                 |
|    | Electric shock hazard            |    | Laser beam hazard                            |
|    | Electromagnetic field hazard     |    | Low temperature danger - freezing            |
|    | Flammable material hazard        |    | General Risk                                 |
|    | Hot surface hazard               |    | Obligation to read the instructions          |
|   | Corrosive substance hazard       |   | Safety glasses required                      |
|  | Risk of noise level above 80 dbA |  | Protective gloves required                   |
|  | Moving Parts Risk                |  | Disconnect mains plug from electrical outlet |

|  |  |
|--|--|
|  <b>DANGER</b>  | <p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, will result in serious permanent injury or death.</p> |
|  <b>WARNING</b> | <p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in serious permanent injury or death.</p>  |
|  <b>CAUTION</b> | <p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in minor injury.</p>                       |
| <b>NOTICE</b>  | <p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in material damage.</p>                    |
| <b>INFORMATION</b>   | <p>This is not a safety symbol.</p> <p>It indicates important information.</p>   |

## 2 SPECIFIC SAFETY RULES FOR INSTALLING TMD MKG

The technology used for the design and manufacturing control of the **TMD MKG** makes it a reliable, simple and safe device to install and use.

The personnel in charge of installing the remote diagnostic tools are required to follow the general safety rules, to use **TMD MKG** devices for their intended use only and to carry out the maintenance as described in this manual.

All the requirements based on the following must be assessed and applied:

- *Labour inspectorate.*
- *Trade associations.*
- *Vehicle manufacturers.*
- *Anti-pollution regulations.*

### 2.1 Glossary

**Operator:** a qualified person responsible for installing the remote diagnostic device.

**Device:** any **TMD MKG** device.

#### INFORMATION

*The definition of "operator" cannot be applied to minors or to people with reduced physical, sensory or mental capabilities or without any experience or knowledge required.*



## 2.2 General Rules



The operator must have carefully read all the information and instructions in the technical documents provided with the tool.

If the operator is not able to read this manual, the operating instructions and safety indications must be read and discussed in the operator's native language.



### CAUTION

- *The operator that works on vehicles must have basic qualifications and knowledge of mechanics, automotive engineering, car repair and of the potential dangers that may arise during self-diagnosis operations.*
- *The operator must carefully follow all the instructions provided in the technical documents.*
- *The operator must be completely clear-headed and sober when installing and using the device; taking drugs or alcohol before or when installing and operating the device is strictly forbidden.*
- *The operator is required to wear adequate personal protective equipment (PPE) throughout the installation of the device.*
- *The operator must periodically inspect the device, making sure it is in good condition and replacing it if it is damaged.*
- *The operator must periodically check the parts that are subject to wear and replace them if necessary, using only original spare parts or spare parts approved by the manufacturer.*
- *The operator must stop using the device immediately should any failure occur, and promptly contact the technical assistance.*
- *Do not remove or damage the labels and the warnings on the device; do not in any case make them illegible.*
- *The operator is prohibited from CARRYING OUT ANY OPERATION NOT EXPRESSLY REQUESTED AND INDICATED.*
- *The equipment can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience or necessary knowledge, as long as they are supervised or given instructions concerning safe use of the equipment and understand the hazards involved.*
- *Children must not play with the equipment.*
- *Cleaning and maintenance must not be carried out by children without supervision.*

## 2.3 Operator Safety

### CAUTION



The device was manufactured to be electrically safe and insulated and to work with specific supply voltage levels.

Improper use may expose the operator to the risk of electric shock, even though of low intensity.

#### Safety Measures:

- *Wear adequate personal protective equipment during all the operating phases.*
- *Do not handle or touch the device with wet hands.*
- *If liquid should penetrate inside the device, contact technical assistance.*
- *Do not wear metal rings or bracelets when working on batteries.*

### WARNING



The device was manufactured to be electrically safe and mechanically resistant.

However, it is necessary to reduce the risk of damages to the device that may cause burns.

#### Safety Measures:

- *Avoid sparks or flames near the installation.*

### CAUTION



If the device gets wet or damaged, or comes into contact with liquids, this may cause short circuits, fire, material damage or serious injury.

Never use a wet or damaged device.

## 2.4 Device Safety

### NOTICE



***The device was manufactured to be mechanically resistant. Careless use and excessive mechanical strain may impair its efficiency.***

#### Safety Measures:

- Do not drop, shake or knock the device.
- Do not carry out any type of intervention that may damage the device.
- Do not open or disassemble the device.
- Make sure the device is properly fastened before moving the vehicle on which it is installed.

### NOTICE



***The device was manufactured to be electrically safe and to work with specific supply voltage levels.***

***Failure to comply with the specifications related to the power supply may impair its efficiency.***

#### Safety Measures:

- Do not wet the device with water or other liquids.
- The device's power supply must always be connected following the indications provided by the Assistance Service.
- Do not use external batteries to power the device.
- Wear the most suitable personal protective equipment to avoid static electricity.

### NOTICE



***The device was designed to be used in specific environmental conditions.***

***Installing and using the device in environments with temperatures and humidity that differ from those indicated may impair its efficiency.***

#### Safety Measures:

- Position the device as indicated in this manual.
- Do not expose or install the device near sources of heat.
- Always place the device in a dry area.
- Do not expose the device to rain or water jets.
- Do not use corrosive chemicals, solvents or harsh detergents to clean the device.

## 2.5 Safety during the Installation

### NOTICE



**The installation of the device was carefully tested by qualified personnel in TEXA.**

**You must follow some indications provided by the vehicle manufacturer in order to install the device correctly.**

#### Safety Measures:

- Follow the indications provided in the vehicle's manual carefully to disassemble the plastic parts and the access to the compartments.
- Do not compromise in any way the quality of the electrical and mechanical OEM wiring.
- Make sure the electric cables, the wiring in general, the fuel hydraulic pipes and the safety pneumatic devices of the vehicle are not damaged during the installation.
- Do not change the current flow of an OEM circuit by cutting it off, increasing it or mechanically changing it cables if not permitted by the vehicle manufacturer.

### CAUTION



**The device must be installed so as to ensure it can work correctly and safely.**

**Make sure the installation does not interfere with the operation of the vehicle controls.**

**Make sure the product's position does not compromise safety when driving the vehicle.**

#### Safety Measures:

- Inform the driver that the device must not be moved in any way or for any reason from the location where it was installed.

### NOTICE



**At the end of the installation, you must restore the initial conditions of the vehicle.**

#### Safety Measures:

- Restore any OEM device (e.g.: covers, compartments, plastic parts, seals).
- Replace the fastening elements that are damaged.

### 3 OPERATION OF THE RADIO DEVICES

#### Wireless connection with Bluetooth, Wi-Fi and 2G / 3G / 4G technology

The wireless connectivity with the Bluetooth, Wi-Fi and 2G / 3G / 4G technology is a technology that supplies a standard, reliable method to exchange information between different devices, using radio waves. Other than TEXA tools, many more products use this technology, such as cellular phones, portable devices, computers, printers, photo cameras, Pocket PCs, etc.

The Bluetooth, Wi-Fi and 2G / 3G / 4G interfaces look for compatible electronic devices according to the radio signal they emit and establish a connection between them. TEXA tools select and only prompt you with compatible TEXA devices. This does not exclude the presence of other sources of communication or disturbance.

THE EFFICIENCY AND QUALITY OF BLUETOOTH, Wi-Fi AND 2G / 3G / 4G COMMUNICATION MAY BE INFLUENCED BY THE PRESENCE OF RADIO DISTURBANCE SOURCES. THE COMMUNICATION PROTOCOL HAS BEEN DEVELOPED TO MANAGE THESE TYPES OF ERRORS; HOWEVER, IN THESE CASES COMMUNICATION MAY BECOME DIFFICULT AND CONNECTION MAY REQUIRE SEVERAL ATTEMPTS.

SHOULD THE WIRELESS CONNECTION ENCOUNTER SERIOUS PROBLEMS THAT MAY COMPROMISE A REGULAR COMMUNICATION, THE SOURCE OF THE ENVIRONMENTAL ELECTROMAGNETIC INTERFERENCE MUST BE IDENTIFIED AND ITS INTENSITY REDUCED.

Position the tool so that the radio devices it is equipped with can work properly. In particular, do not cover it with any shielding or metallic materials in general.

## 4 ENVIRONMENTAL INFORMATION



Do not dispose of this product with other undifferentiated solid waste.  
For information regarding the disposal of this product please see the pamphlet supplied.

## 5 REGULATORY INFORMATION

### Simplified EU Declaration of Conformity



TEXA S.p.A. declares that the **TMD MKG** type of equipment is compliant with the following directives:

- *RED 2014/53/EU*

The complete text of the EU declaration of conformity is available at the following Internet address <http://www.texa.it/download>.

## 6 TMD MKG

**TMD MKG** is a self-powered anti-theft device.



The device only works in combination with a TEXA **MASTER** unit, to which it is connected via a Bluetooth Low Energy channel.

The compatible **MASTER** units are:

- *TMD MK0;*
- *TMD MK3;*
- *TMD MK5;*

The **TMD MKG** checks the communication with the **MASTER** unit at regular intervals.

While checking the communication, the device and the MASTER unit are re-synchronised and exchange status information.

The device activates the "*alarm*" mode if the communication with the **MASTER** unit is cut off, sending the vehicle position via GPRS to the Operations Centre.

The position is sent on a configurable time basis.

If the **MASTER** unit's power is disconnected suddenly (e.g. cut cables), the device activates the "*alarm*" mode after a few seconds.

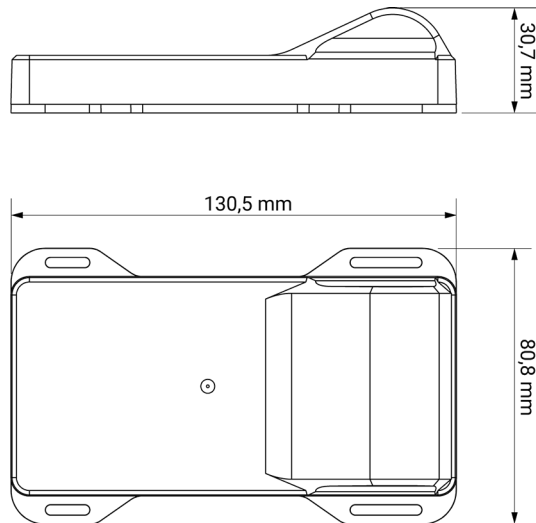
The "*alarm*" mode in the device remains active until the battery is depleted.

If the device does not communicate with the **MASTER** unit, the latter will send an alarm to the Operations Centre.

Once its function is exhausted, the **TMD MKG** must be disposed of.



## 7 TECHNICAL FEATURES

|   |  |
|---|--|
| <b>Manufacturer:</b>                              | TEXA S.p.A.  |
| <b>Model:</b>                                     | TMD MKG  |
| <b>CPU:</b>                                       | CORTEX M4  |
| <b>Communication module:</b>                      | GPRS / GSM / BT  |
| <b>GNSS module:</b>                               | GPS, GLONASS, Beidou, Compass, Galileo   |
| <b>Battery:</b>                                   | Lithium 3.6 V - 8.5 Ah   |
| <b>Power supply:</b>                              | self-powered   |
| <b>Maximum radio frequency power transmitted:</b> | -5.4 dBm (2400 ÷ 2483,5 MHz)   |
| <b>Operating temperature:</b>                     | - 20 ÷ 65 °C   |
| <b>Storage temperature:</b>                       | - 30 ÷ 80 °C   |
| <b>Operating moisture:</b>                        | 10 ÷ 80 %  |
| <b>Dimensions:</b>                                |  <p>Technical drawing of the TMD MKG device showing two views: a side profile and a top-down view. The side profile shows a height of 30.7 mm. The top-down view shows a width of 130.5 mm and a height of 80.8 mm.</p> |
| <b>Weight:</b>                                    | 170 g  |
| <b>Regulations and Directives:</b>                | RED 2014/53/EU<br>RoHS 2011/65/EU<br>Delegated Directive 2015/863  |
| <b>Electromagnetic Compatibility:</b>             | ETSI EN 301 489-1<br>ETSI EN 301 489-3<br>ETSI EN 301 489-7<br>ETSI EN 301 489-17  |
| <b>Radio Systems:</b>                             | ETSI EN 300 328<br>ETSI EN 301 511<br>ETSI EN 303 413<br>EN 62311  |
| <b>Electrical Safety:</b>                         | EN 62368-1   |

## 8 TMD MKG INSTALLATION



### DANGER

The installation must be performed by qualified personnel only.  
Make sure the installation does not interfere with the vehicle operation.



### CAUTION

Periodically check that the connectors, wiring and cables supplied with the MASTER unit are undamaged.

If the connectors, wiring and cables are damaged, contact the assistance service for a replacement.

For any malfunction, contact the Assistance Service.

Proceed as follows:

1. Install and secure the device in the position that the operator considers the most suitable to fulfil the operating requirements.

### INFORMATION

*To prevent tampering with the device, choose its installation position carefully.*

*For more information and advice, contact TEXA Assistance Service.*



For more information, see the user manual provided with the vehicle.

## 9 ACTIVATION

In order to use the advanced functions in the device, it must be activated.

### **9.1** *Activation through MK3Starter*

You can carry out the device's activation using the specific **MK3Starter** software.

The software consists of an app for Android devices that can be downloaded free of charge through Play Store.

For a proper operation of the **MK3Starter**, the device the app is installed in must connect to the Internet and be enabled to install apps coming from unknown creators.

The device can be configured at the end of the activation procedure.

**For further information consult the MK3Starter operating manual.**

## 10 LEGAL NOTICES

### TEXA S.p.A.

Via 1 Maggio, 9 - 31050 Monastier di Treviso - ITALY

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Single-shareholder company subject to the direction and coordination activities of Opera Holding S.r.l.

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For information regarding the legal notices, please refer to the **International Warranty Booklet** provided with the product.